

FIG. 1A

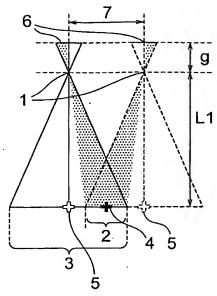


FIG. 1B

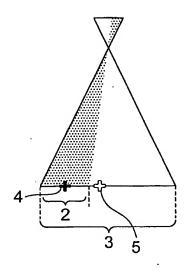
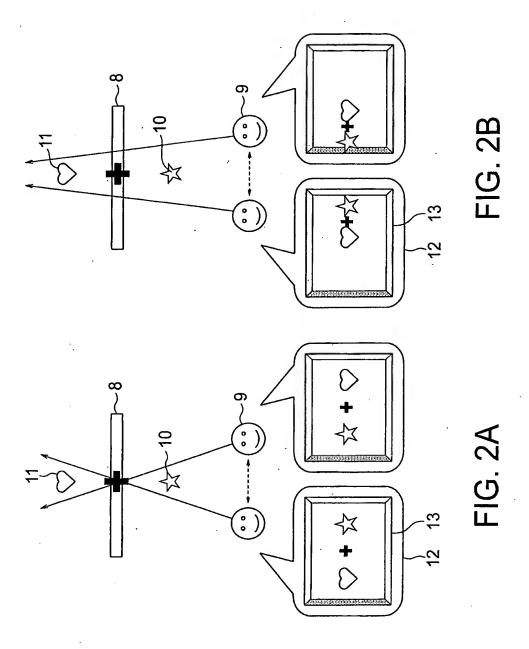


FIG. 1C



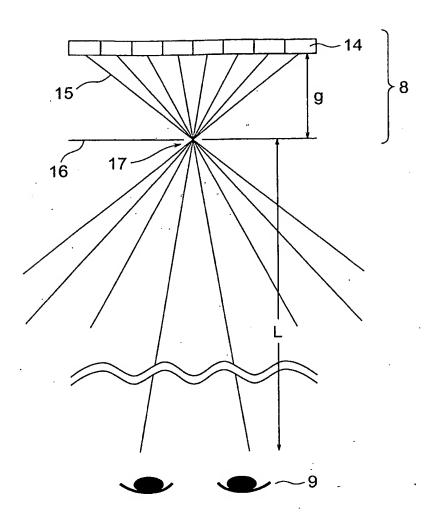


FIG. 3

	[mm]		[pixel]		[mm/pixel]	REMARKS
2D DIS	PLAY PARA	AMETER	RS	·		
D_W_h	WIDTH	D_x_h	HORIZONTAL NUMBER OF PIXELS	D_p_h	HORIZONTAL PIXEL PITCH	
D_W_v	HEIGHT	D_x_v	VERTICAL NUMBER OF PIXELS	D_p_v	VERTICAL PIXEL PITCH	
3D DIS	PLAY PARA	AMETER	RS			
3D_W_ h	WIDTH	3D_x_h	HORIZONTAL NUMBER OF PIXELS	3D_p_h	HORIZONTAL PIXEL PITCH	
3D_W_ v	HEIGHT	3D_x_v	VERTICAL NUMBER OF PIXELS	3D_p_v	VERTICAL PIXEL PITCH	
REFER	ENCE PRO	DJECTIC	ON PLANE PARA	METERS	6	
P_W_h	WIDTH	P_x_h	HORIZONTAL NUMBER OF PIXELS	P_p_h	HORIZONTAL PIXEL PITCH	REFERENCE PROJECTION PLANE
P_W_v	HEIGHT	P_x_v	VERTICAL NUMBER OF PIXELS	P_p_v	VERTICAL PIXEL PITCH	REFERENCE PROJECTION PLANE
INDIVI	DUAL PRO	JECTIO	N PLANE PARAM	ETERS		
P_ray	HORIZONTAL INTERVAL					LIGHT RAY INTERVAL AT L1
S_W_h	WIDTH	S_x_h	HORIZONTAL NUMBER OF PIXELS	Sp_p_h	HORIZONTAL PIXEL PITCH	SHOT IMAGE HORIZONTAL
S_W_v	HEIGHT	S_x_v	VERTICAL NUMBER OF PIXELS	S_p_v	VERTICAL PIXEL PITCH	SHOT IMAGE VERTICAL
Shift_W		Shift_x	·	Shift_p	·	SHIFT IN HORIZONTAL COORDINATE BETWEEN INDIVIDUAL PROJECTION PLANES
Shift _all_W		Shift _all_x		Shift _all_p		SHIFT OF INDIVIDUAL PROJECTION PLANE AT OUTERMOST END
Overlap _W		Overlap _x		Overlap _p		OVERLAPPING HORIZONTAL WIDTH BETWEEN INDIVIDUAL PROJECTION PLANES

# FIG. 4

ENLARGEMENT AND REDUCTION OF MULTI-VIEWPOINT IMAGE						
Zoom_S		zoom_N		ZOOM (MAGNIFICATION)		

FIG. 5

	[mm] [pixel] [mm/pixel					
2D DISPI	AY PARAMETER	RS				
D_W_h	=D_p_h * D_x_h	D_x_h	=DEFAULT	D_p_h	=DEFAULT	
D_W_v	=D_p_v * D_x_v	D_x_v	=DEFAULT	D_p_v	=DEFAULT	
3D DISPI	LAY PARAMETER	RS			·	
3D_W_h	=D_W_h	3D_x_h	=D_x_h * 3/Np	3D_p_h	=3D_W_h/3D_x_h	
3D_W_v	=D_W_v	3D_x_v	=DEFAULT	3D_p_v	=3D_W_v/3D_x_v	
ENLARGE	MENT AND REDU	ICTION OF	MULTI-VIEWPOINT	IMAGE		
zoom_S	=DEFAULT	zoom_N	=DEFAULT			
REFERE	NCE PROJECTIO	N PLANE				
P_W_h	=D_W_h * zoom_S	P_x_h		P_p_h	=P_W_h/P_x_h	
P_W_v	=D_W_v*zoom_S	P_x_v	=3D_x_v * zoom_N	P_p_v	=P_W_v/P_x_v	
INDIVIDU	JAL PROJECTION	PLANE	PARAMETERS	<del></del>		
P_ray	$=(D_p_h/3) * L1/g$					
S_W_h	=Sp_p_h * S_x_h	S_x_h	=Shift_all_x+ Overlap_x	Sp_p_h	=P_p_v	
S_W_v	=S_p_v * S_x_v	S_x_v	-=ROUND(2 * (L1/ TAN(φ)+P_W_v/2) /P_p_v)	S_p_v	=P_p_v	
Shift_W	=Shift_p * Shift_x	Shift_x	=ROUND(P_ray_/ P_p_v)	Shift_p	=P_p_v	
Shift_all _W	=Shift_all_p * Shift _all_x	Shift_all _x	=Shift_x * (N_need -1)	Shift_all _p	=P_p_v	
Overlap_ W	=Overlap_p * Overlap_x	Overlap_ x	=P_x_h * P_p_h/ P_p_v	Overlap_p	=P_p_v ·	

FIG. 6

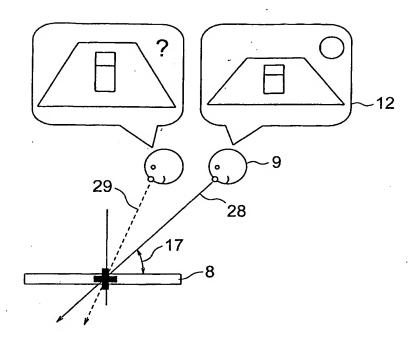


FIG. 7

φ [degree]	45	50	55	60	65
b/a	1	0.84	0.70	0.58	0.47

FIG. 8

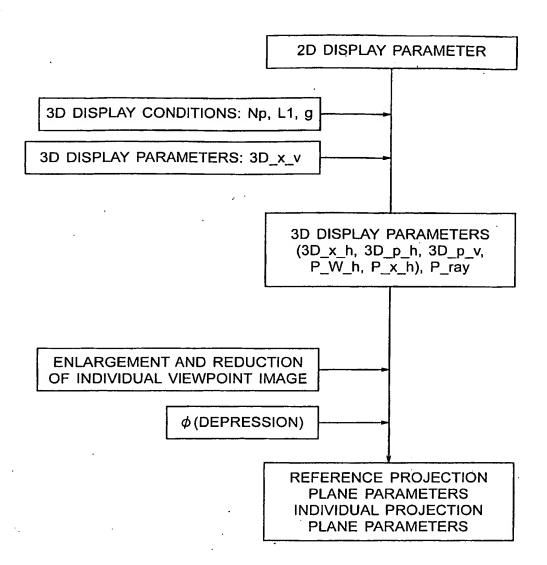


FIG. 9

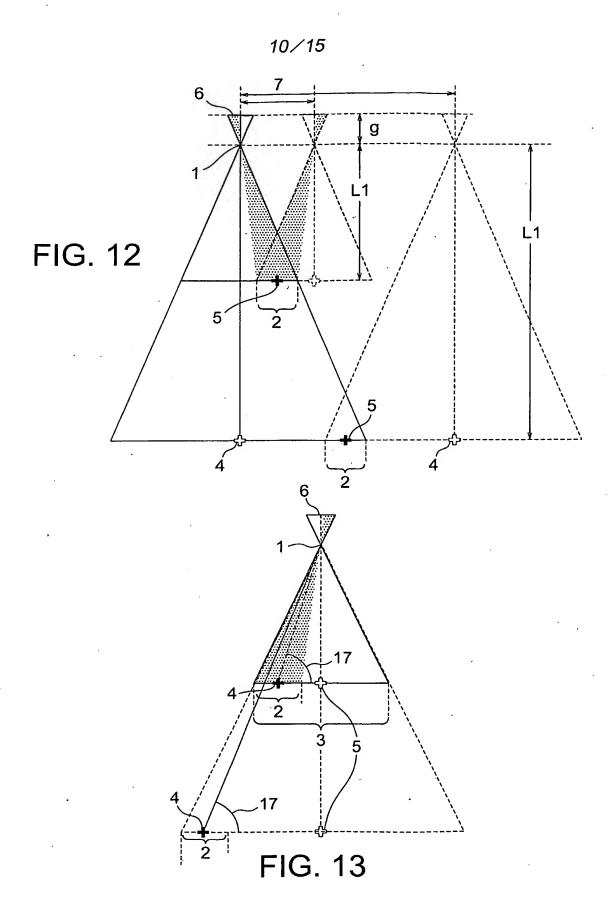
	[mm] [pixel]			[mm/pixel]		REMARKS
CAMERA PARAMETERS						
F_W_h	WIDTH	F_x_h	HORIZONTAL NUMBER OF PIXELS	F_p_h	HORIZONTAL PIXEL PITCH	FILM HORIZONTAL
F_W_v	HEIGHT	F_x_v	VERTICAL NUMBER OF PIXELS	F_p_v	VERTICAL PIXEL PITCH	FILM VERTICAL
F	FOCAL LENGTH					DISTANCE BETWEEN FILM AND LENS

FIG. 10

	[mm]		[pixel]		[mm/pixel]		
ENI ARGE		ICTION OF	MULTI-VIEWPOIN	T IMAGE	<del>-</del>		
zoom_S	=DEFAULT	zoom_N	=P_x_v/3D_x_v				
	NCE PROJECTIO						
P_W_h		P_x_h	=ROUND(P_x_v * 3D_W_h/3D_W_v)	P_p_h	=F_p_h * L1/f		
P_W_v	=3D_W_h * Zoom_ S	P_x_v	=ROUND(P_W_v/ P_p_v)	P_p_v	=F_p_v*L1/f		
INDIVIDU	IAL PROJECTION	PLANE	PARAMETERS				
P_ray	=(FD_p_h/3) * L 2/g						
S_W_h	=Sp_p_h * S_x_h	S_x_h	=F_x_h	Sp_p_h	=P_p_v		
S_W_v	=Fp_p_h * F_x_h	S_x_v	=F_x_v	S_p_v	=P_p_v		
Shift_W	=Shift_p * Shift_x	Shift_x	=ROUND(P_W_h/ P_p_v)	Shift_p	=P_p_v		
Shift_all _W	=Shift_all_p * Shift_all_x	Shift_all_x	=Shift_x * (N_all _result-1)	Shift_all_p	=P_p_v		
Overlap_ W	=Overlap_p * Overlap_x	Overlap_ x	=S_x_h-Shift_all _x	Overlap_p	=P_p_v		
CAMERA	CAMERA PARAMETERS						
F_W_h	=F_W_v * F_x_h/ F_x_v	F_x_h	=DEFAULT	F_p_h	=F_W_h/F_x_h		
F_W_v	=DEFAULT	F_x_v	=DEFAULT	F_p_v	=F_W_v/F_x_v		
F	=DEFAULT						

FIG. 11

PCT/JP2006/308251



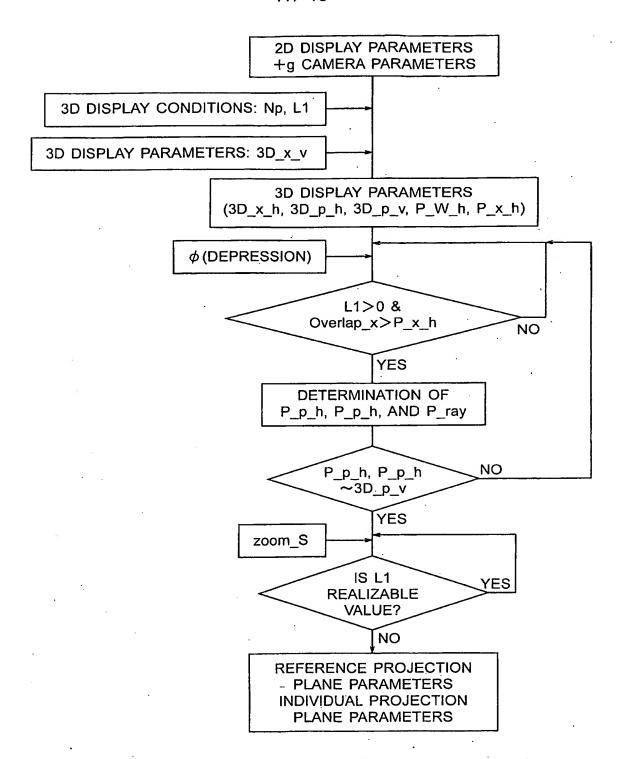


FIG. 14

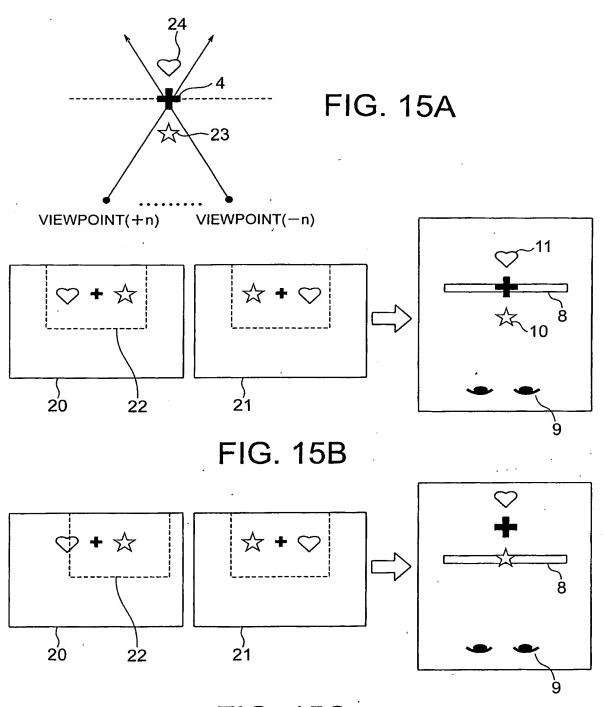


FIG. 15C

	[mm]		[pixel]		[mm/pixel]	
2D DISP	LAY PARAMETER	<b>२</b> S				
D_W_h	331.2	D_x_h		D_p_h	0.1725	
D_W_v	207	D_x_v	1200	D_p_v	0.1725	
3D DISPI	LAY PARAMETER	RS				
3D_W_h	331.2	3D_x_h	320	3D_p_h	1.035	
3D_W_v	<del></del>	3D_x_v	400		0.5175	
ENLARGE	ENLARGEMENT AND REDUCTION OF INDIVIDUAL VIEWPOINT IMAGE					
zoom_S		zoom_N	1			
REFERE	NCE PROJECTIO					
P_W_h	331.2	P_x_h	. 320	P_p_h	1.035	
P_W_v	207	P_x_v	400	P_p_v	0.5175	
INDIVIDU	JAL PROJECTION	N PLANE	PARAMETERS			
P_ray	20.125					
S_W_h	1037.5875	S_x_h		Sp_p_h	0.5175	
S_W_v	1187.145	S_x_v	2294	S_p_v	0.5175	
Shift_W	20.1825	Shift_x	39	Shift_p	0.5175	
Shift_all	706.3875	Shift_all	1365	Shift_all	0.5175	
_w _		_X		_p		
Overlap_ W	331.2	Overlap_ x	640	Overlap_p	0.5175	

FIG. 16

	[mm] [pixel] [mm/pixel]					
2D DISP	LAY PARAMETER	RS				
D_W_h	331.2	D_x_h		D_p_h	0.1725	
D_W_v	207	D_x_v	. 1200	D_p_v	0.1725	
3D DISPLAY PARAMETERS						
3D_W_h	331.2	3D_x_h	320	3D_p_h	1.0327577	
3D_W_v		3D_x_v		3D_p_v	0.5175	
ENLARGEMENT AND REDUCTION OF INDIVIDUAL VIEWPOINT IMAGE						
zoom_S	1	zoom_N	1.265			
REFERE	NCE PROJECTIO	N PLANE	PARAMETERS			
P_W_h	331.619712	P_x_h		P_p_h	0.4094071	
P_W_v	. 207	P_x_v	506	P_p_v	0.4094071	
INDIVIDU	IAL PROJECTION	N PLANE	PARAMETERS			
P_ray	26.4835187					
S_W_h	818.814104	S_x_h	2000	Sp_p_h	0.4094071	
S_W_v	1228.22116		3000	S_p_v	0.4094071	
Shift_W	26.6114584	Shift_x	65	Shift_p	0.4094071	
Shift_all _W	452.394792	Shift_all _x	1105	Shift_all _p	0.4094071	
Overlap_ W	366.419311	Overlap_ x	, 895	Overlap_p	0.4094071	
CAMERA	PARAMETERS					
F_W_h	16	F_x_h	2000	F_p_h	0.008	
F_W_v	24	F_x_v	3000	F_p_v	0.008	
F	18					

FIG. 17

•	[mm]		[pixel]		[mm/pixel]		
2D DISP	LAY PARAMETER	२८					
D_W_h	331.2	D_x_h		D_p_h	0.1725		
D_W_v	207	D_x_v	1200	D_p_v	0.1725		
3D DISP	3D DISPLAY PARAMETERS						
3D_W <sub>-</sub> h	. 331.2	3D_x_h	320	3D_p_h	1.035		
3D_W_v	207	3D_x_v	400	3D_p_v	0.5175		
P_W_h	1.03795714	P_x_h	18.0514286				
ENLARGEMENT AND REDUCTION OF INDIVIDUAL VIEWPOINT IMAGE							
zoom_S	1	zoom_N	1.015				
REFERE	REFERENCE PROJECTION PLANE PARAMETERS						
P_W_h	331.023652	P_x_h		P_p_h	0.5092672		
P_W_v	<u> </u>	P_x_v		P_p_v	0.5092672		
INDIVIDU	JAL PROJECTION	PLANE	PARAMETERS				
P_ray	32.9432192						
S_W_h	1527.80147	S_x_h	3000	Sp_p_h	0.5092672		
S_W_v		S_x_v		S_p_v	0.5092672		
Shift_W	33.1023652				0.5092672		
Shift_all W	1158.58278	Shift_all x	2275	Shift_all _p	0.5092672		
Overlap_ W	369.218689	Overlap_ x	725	Overlap_p	0.5092672		
CAMERA	PARAMETERS				·		
F_W_h	24	F_x_h		F_p_h	0.008		
F_W_v	16	F_x_v	2000	F_p_v	0.008		
F	18						

FIG. 18